

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

THE COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

Serial No. 10/074,493
Applicant: Ledenstsov et al.
Filed: 2/12/2002
Title: TILTED CAVITY SEMICONDUCTOR LASER (TCSL) AND METHOD OF MAKING SAME
Art Unit: 2828
Examiner: Jackson, Cornelius
Attorney Docket No.: QIL-5



SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this information Disclosure Statement

1. ☒ Preliminary Statements
2. ☒ FORM PTO - 1449 (Modified)
3. ☐ Statement As To Information Material To Examination Not Found in Patents or Publications
4. ☐ Identification of Prior Application In Which Listed Information Was Already Cited and For Which No Copies Are Submitted Or Need Be Submitted.
5. ☐ Cumulative patents or Publications
6. ☒ Copies of Listed Information Items Accompanying This Statement
7. ☐ Concise Explanation of Non-English Language Listed Information Items.
8. ☐ Translation(s) of Non-English Language Documents
9. ☐ Certification under MPEP 609(e)
10. ☒ Identification of Person(s) Making This Information Disclosure Statement

CERTIFICATE OF MAILING

[X] Certified Mail No: 7004 0750 0003 0307 3155

Date: January 27, 2005

I hereby certify that this correspondence is being deposited with the United States Postal Service, return receipt requested in an envelope addressed to: Commissioner of Patents, Alexandria, VA 22313-1450 on this date.

02/02/2005 KBETEM1 00000021 10074493

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Justin Wood

Section 1. Preliminary statements

Applicant submits herewith patents, publications or other information of which he is aware, which he believes may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.56(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Section 2. Form PTO - 1449 (Modified) (SEE ATTACHMENT)

*EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw a line through citation if not in conformance or not considered. Include a copy of this form with the next communication to applicant.

Section 3. Statement As To Information Material For Examination Not Found in Patents or Publications (Information not listed in PTO 1449)

Section 4. Identification of Prior Application in Which Listed Information Was Already Cited and For Which No Copies Are Submitted Or Need Be Submitted

Section 5. Cumulative Patents or Publications

☐ Item(s)

are cumulative of the following patents or publication listed on Form PTO 1449 (modified):

In accordance with 37 CFR 1.98(c) a copy of _____ is being submitted with this information disclosure statement.

Section 6. Copies of Listed Information Items Accompanying This Statement

Legible copies of all items listed accompany this information statement.

☐ Exception(s) to above:

☐ Items in prior application from-which an earlier filing date is claimed for this application as identified in Section 4.

☐ Cumulative patents or publications identified in Section 5.

Section 7. Concise Explanation of Non-English Language Listed Information Items

Section 8. Translation(s) of Non-English Language Documents

☐ Submitted herewith is an English translation of the following foreign language patents, publications or information or of those portions of those patents, publications or information considered to be material:

☐ No English language translations of the foreign language patents, publications or information or parts thereof are readily available, except for those listed above.

☐ The following foreign language documents submitted are believed to be the equivalent or

substantial equivalent of the English language documents identified below, which are also submitted herewith.

Section 9. Certification under Rule 1.97

☐ The undersigned hereby certifies that:

a. This Statement is being filed after the latest of (1) three months after the filing date of a national application; (2) three months after the date of entry of the national stage as set forth in w 1.491 in an international application; (3) the mailing date of a first Office action on the merits.

b. The fee set forth in §1.17(p)

☒ Is being paid with this Information Disclosure Statement.

☐ Is not due because:

☐ (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement, or

☐ (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the statement.

Section 10. IDENTIFICATION OF PERSON(S) MAKING THIS INFORMATION DISCLOSURE STATEMENT

The person making this statement is

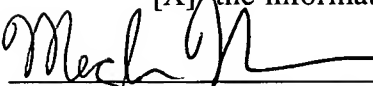
(a) ☐ the inventor(s) who signs below

(b) ☒ the attorney who signs below on the basis of:

☐ the information supplied by the inventor(s)

☐ an individual associated with the filing and prosecution of this application (37 CFR 1.56(c)).

☒ the information in the attorney's file


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Date: 1/27/08

Section 2. Form PTO - 1449 (Modified) (ATTACHMENT)

FORM PTO-1449 U.S. DEPT. OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. QIL-5	SERIAL NO. 10/074,493
	APPLICANT Ledentsov et al.	
INFORMATIONAL DISCLOSURE STATEMENT BY APPLICANT	FILING DATE 2/12/2002	GROUP 2828

U.S. PATENT DOCUMENTS

Exam Initial	DOCUMENT NUMBER	DATE	PATENTEE	CLASS	SUB	FILING DATE IF APPROPR

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Exam Initial	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB	TRANSLATION YES NO

OTHER PRIOR ART

Exam Initial	Author, Title, Date, Pertinent Pages, Etc
	N.N. Ledentsov and V.A. Shchukin. "Novel concepts for Injection Lasers" Opt. Eng. Vol. 41, No. 12, 2002, pg. 3193-3203.
	"Materials and Devices For Optical and Wireless Communications (APOC02) - Conferences - APOC 2002" The International Society for Optical Engineering, October 2002 http://spie.org/Conferences/Programs/02/apoc/conferences/index.cfm?fuseaction=4905
	N.N. Ledentsov and V.A. Shchukin. "Novel to Approaches to Semiconductor Lasers" Proceedings of SPIE, vol. 4905, 2002, pg. 222-234
	IOP Select, Collected Articles from the Institute of Physics 2004 http://www.IOP.org/Select
	N N Ledentsov, et al. "Wavelength-stabilized tilted cavity quantum dot laser" Semicond. Sci. Technol. 19 No 10 (October 2004) 1183-1188
	"ETOS 2004" Emerging Technologies in Optical Sciences: Shaping the future of Communications, July 2004 http://www.physics.ucc.ie/ETOS/Speakers.html
	Ledentsov, Nikolai, "The Tilted Cavity Laser" Emerging Technologies in Optical Sciences: Shaping the future of Communications, ETOS 2004, July 26-29, University College Cork.
	"Nanomodeling - Conferences - SPIE Annual Meeting 2004-Programs-Conferences-SPIE web" The International Society for Optical Engineering http://spie.org/Conferences/Programs/04/am/conferences/index.cfm?fuseaction=5509
	V.A. Shchukin et al. "Tilted Cavity Laser" Nanomodeling, Proceedings of SPIE, Vol. 5509, pg. 61-71, 2004
	Physics and Simulation of Optoelectronic Devices XIII, Conference 5722, Proceedings of SPIE, Vol. 5722, January 2005
	N N Ledentsov, et al. "Edge and Surface Emitting tilted Cavity Lasers" to be presented at January 2005 conference
	Compound Semiconductor Manufactures EXPO, Compound Semiconductor Week 2004, October 2004.
	N N Ledentsov, et al. "Tilted cavity lasers Based on Quantum Dots or Quantum Wells", Extended abstract of Compound Semiconductor conference, October 2004

EXAMINER	DATE CONSIDERED